

## EUNIS habitat classification : changes between October 1999 and February 2002

This report documents EUNIS habitat types at any hierarchical level for which either a) the EUNIS code has changed; or b) the EUNIS scientific name has changed; or c) the unit has been added or d) the unit has been deleted since the publication of the classification dated October 1999.

Old code	Old name	New code	New name
A1.11	B ELR:MB Mussels and barnacles on very exposed littoral rock	A1.11	B ELR:MB Mussels and/or barnacles on very exposed littoral rock
A1.13	M Il.4.1. Biocenosis of the upper mediolittoral rock	A1.13	M Il.4.1. Communities of the upper mediolittoral rock
A1.14	M Il.4.2.(p) Biocenosis of the lower mediolittoral rock very exposed to wave action	A1.14	M Il.4.2.(p) Communities of the lower mediolittoral rock very exposed to wave action
new unit		A1.21	O Mussels and/or barnacles on littoral rock moderately exposed to wave action
A1.21	B MLR:BF Fucoids and barnacles on moderately exposed littoral rock	A1.22	B MLR:BF Fucoids and barnacles on moderately exposed littoral rock
A1.211	B MLR:BF:PeIB [Pelvetia canaliculata] and barnacles on moderately exposed littoral fringe rock	A1.221	B MLR:BF:PeIB [Pelvetia canaliculata] and barnacles on moderately exposed littoral fringe rock
A1.212	B MLR:BF:FvesB [Fucus vesiculosus] and barnacle mosaics on moderately exposed mid eulittoral rock	A1.222	B MLR:BF:FvesB [Fucus vesiculosus] and barnacle mosaics on moderately exposed mid eulittoral rock
A1.213	B MLR:BF:Fser [Fucus serratus] on moderately exposed lower eulittoral rock	A1.223	B MLR:BF:Fser [Fucus serratus] on moderately exposed lower eulittoral rock
A1.2131	B MLR:BF:Fser.R [Fucus serratus] and red seaweeds on moderately exposed lower eulittoral rock	A1.2231	B MLR:BF:Fser.R [Fucus serratus] and red seaweeds on moderately exposed lower eulittoral rock
A1.2132	B MLR:BF:Fser.Fse Dense [Fucus serratus] on moderately exposed to very sheltered lower eulittoral rock	A1.2232	B MLR:BF:Fser.Fse Dense [Fucus serratus] on moderately exposed to very sheltered lower eulittoral rock
A1.2132	<sup>r</sup> MLR:BF:Fser.Fse [Fucus serratus] and under-boulder fauna on lower eulittoral boulders	A1.2232	<sup>r</sup> MLR:BF:Fser.Fse [Fucus serratus] and under-boulder fauna on lower eulittoral boulders
A1.2133	B MLR:BF:Fser.Pid [Fucus serratus] and piddocks on lower eulittoral soft rock	A1.2233	B MLR:BF:Fser.Pid [Fucus serratus] and piddocks on lower eulittoral soft rock
A1.22	B MLR:R Red seaweeds on moderately exposed littoral rock	A1.23	B MLR:R Red seaweeds on moderately exposed littoral rock
A1.221	B MLR:R.XR Mixed red seaweeds on moderately exposed lower eulittoral rock	A1.231	B MLR:R.XR Mixed red seaweeds on moderately exposed lower eulittoral rock
A1.222	B MLR:R:Pal [Palmaria palmata] on very to moderately exposed lower eulittoral rock	A1.232	B MLR:R:Pal [Palmaria palmata] on very to moderately exposed lower eulittoral rock
A1.223	B MLR:R:Mas [Mastocarpus stellatus] and [Chondrus crispus] on very to moderately exposed lower eulittoral rock	A1.233	B MLR:R:Mas [Mastocarpus stellatus] and [Chondrus crispus] on very to moderately exposed lower eulittoral rock
A1.224	B MLR:R:Osm [Osmundea (Laurencia) pinnatifida] and [Gelidium pusillum] on moderately exposed mid eulittoral rock	A1.234	B MLR:R:Osm [Osmundea (Laurencia) pinnatifida] and [Gelidium pusillum] on moderately exposed mid eulittoral rock
A1.225	B MLR:R:RPid [Ceranium] sp. and piddocks on eulittoral fossilised peat	A1.235	B MLR:R:RPid [Ceranium] sp. and piddocks on eulittoral fossilised peat
A1.23	B MLR:Eph Ephemeral green or red seaweeds (freshwater- or sand-influenced) on moderately exposed littoral rock	A1.24	B MLR:Eph Ephemeral green or red seaweeds (freshwater- or sand-influenced) on moderately exposed littoral rock
A1.231	B MLR:Eph:Ent [Enteromorpha] spp. on freshwater-influenced or unstable upper eulittoral rock	A1.241	B MLR:Eph:Ent [Enteromorpha] spp. on freshwater-influenced or unstable upper eulittoral rock
A1.232	B MLR:Eph:EntPor [Porphyra purpurea] or [Enteromorpha] spp. on sand-scoured mid or lower eulittoral rock	A1.242	B MLR:Eph:EntPor [Porphyra purpurea] or [Enteromorpha] spp. on sand-scoured mid or lower eulittoral rock
A1.233	B MLR:Eph:Rho [Rhodothamniella floridula] on sand-scoured lower eulittoral rock	A1.243	B MLR:Eph:Rho [Rhodothamniella floridula] on sand-scoured lower eulittoral rock
A1.24	B MLR:MF Mussels and fucoids on moderately exposed littoral rock	A1.25	B MLR:MF Mussels and fucoids on moderately exposed littoral rock
A1.241	B MLR:MF:MyFve [Mytilus edulis] and [Fucus vesiculosus] on moderately exposed mid eulittoral rock	A1.251	B MLR:MF:MyFve [Mytilus edulis] and [Fucus vesiculosus] on moderately exposed mid eulittoral rock
A1.242	B MLR:MF:MyFR [Mytilus edulis], [Fucus serratus] and red seaweeds on moderately exposed lower eulittoral rock	A1.252	B MLR:MF:MyFR [Mytilus edulis], [Fucus serratus] and red seaweeds on moderately exposed lower eulittoral rock
A1.243	B MLR:MF:MyFPid [Mytilus edulis] beds and piddocks on eulittoral firm clay	A1.253	B MLR:MF:MyFPid [Mytilus edulis] beds and piddocks on eulittoral firm clay

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A1.25	B MLR.Sab [Sabellaria reefs on littoral rock	A1.26	B MLR.Sab [Sabellaria reefs on littoral rock
A1.251	B MLR.Sab.Salv [Sabellaria alveolata] reefs on sand-abraded eulittoral rock	A1.251	B MLR.Sab.Salv [Sabellaria alveolata] reefs on sand-abraded eulittoral rock
A1.26	M II.4.2.(p) Biocenosis of the lower mediolittoral rock moderately exposed to wave action	A1.27	M II.4.2.(p) Communities of the lower mediolittoral rock moderately exposed to wave action
A1.261	M II.4.2.4. Association with [Ceranium ciliatum] and [Corallina	A1.271	M II.4.2.4. Association with [Ceranium ciliatum] and [Corallina
A1.262	M II.4.2.8. [Neogoniolithon brassica-florida] concretion	A1.272	M II.4.2.8. [Neogoniolithon brassica-florida] concretion
A1.263	M II.4.2.9. Association with [Gelidium] spp	A1.273	M II.4.2.9. Association with [Gelidium] spp
A1.264	M II.4.2.10. Pools and lagoons sometimes associated with [Vermetus] spp. (infralittoral enclave)	A1.274	M II.4.2.10. Pools and lagoons sometimes associated with [Vermetus] spp. (infralittoral enclave)
new unit		A1.34	O Red algal turf in lower eulittoral, sheltered from wave action
A1.34	M II.4.2.(p) Biocenosis of the lower mediolittoral rock sheltered from wave action	A1.35	M II.4.2.(p) Communities of the lower mediolittoral rock sheltered from wave action
A1.341	M II.4.2.6. Association with [Enteromorpha compressa]	A1.351	M II.4.2.6. Association with [Enteromorpha compressa]
A2.13	M II.3.1. Biocenosis of the mediolittoral coarse detritic bottoms	A2.13	M II.3.1. Communities of the mediolittoral coarse detritic bottoms
new unit		A2.21	O Sandy and muddy sand shores with 90-100% air exposure
new unit		A2.22	O Sandy and muddy sand shores with 70-90% air exposure
new unit		A2.23	O Sandy and muddy sand shores with <70% air exposure
A2.21	B LGS.S Sand shores	A2.24	B LGS.S Sand shores
A2.211	B LGS.S.Tal Tailrid amphipods in decomposing seaweed on the strand-line	A2.241	B LGS.S.Tal Tailrid amphipods in decomposing seaweed on the strand-line
A2.212	B LGS.S.BarSnd Barren coarse sand shores	A2.242	B LGS.S.BarSnd Barren coarse sand shores
A2.213	B LGS.S.AEur Burrowing amphipods and [Eurydice pulchra] in well-drained clean sand shores	A2.243	B LGS.S.AEur Burrowing amphipods and [Eurydice pulchra] in well-drained clean sand shores
A2.214	B LGS.S.AP Burrowing amphipods and polychaetes in clean sand shores	A2.244	B LGS.S.AP Burrowing amphipods and polychaetes in clean sand shores
A2.2141	B LGS.S.AP.P Burrowing amphipods and polychaetes (often with [Arenicola marina]) in clean sand shores	A2.2441	B LGS.S.AP.P Burrowing amphipods and polychaetes (often with [Arenicola marina]) in clean sand shores
A2.2142	B LGS.S.AP.Pon Burrowing amphipods [Pontocrates] spp. and [Bathyporeia] spp. in lower shore clean sand	A2.2442	B LGS.S.AP.Pon Burrowing amphipods [Pontocrates] spp. and [Bathyporeia] spp. in lower shore clean sand
A2.215	B LGS.S.Lan Dense [Lanice conchilegal] in tide-scoured lower shore sand	A2.245	B LGS.S.Lan Dense [Lanice conchilegal] in tide-scoured lower shore sand
A2.22	B LMS.MS Muddy sand shores	A2.25	B LMS.MS Muddy sand shores
A2.221	B LMS.MS.BatCor [Bathyporeia] spp. and [Corophium] spp. in upper shore slightly muddy fine sands	A2.251	B LMS.MS.BatCor [Bathyporeia] spp. and [Corophium] spp. in upper shore slightly muddy fine sands
A2.222	B LMS.MS.PCer Polychaetes and [Cerastoderma edule] in fine sand and muddy sand shores	A2.252	B LMS.MS.PCer Polychaetes and [Cerastoderma edule] in fine sand and muddy sand shores
A2.223	B LMS.MS.MacAve [Macoma balthica] and [Arenicola marina] in muddy sand shores	A2.253	B LMS.MS.MacAve [Macoma balthica] and [Arenicola marina] in muddy sand shores
A2.2231	B LMS.MS.MacAve [Arenicola marina], [Macoma balthica] and [Mya arenaria] in muddy sand shores	A2.2531	B LMS.MS.MacAve [Arenicola marina], [Macoma balthica] and [Mya arenaria] in muddy sand shores
A2.23	M II.2.1. Biocenosis of the mediolittoral sands	A2.26	M II.2.1. Biocenosis of the mediolittoral sands
A2.231	M II.2.1.1. Facies with [Ophelia bicornis]	A2.261	M II.2.1.1. Facies with [Ophelia bicornis]
new unit		A2.31	O Muddy shores with 90-100% air exposure
new unit		A2.32	O Muddy shores with 70-90% air exposure
new unit		A2.33	O Muddy shores with <70% air exposure
new unit		A2.331	O [Corophium] spp. in soft mud shores
A2.33	O Saltmarsh creeks	A2.34	O Saltmarsh creeks
new unit		A2.341	O Erosion faces with [Carcinus maenas]

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A2.34	O Saltmarsh pools	A2.35	O Saltmarsh pools
A2.31	B LMU.SMu Sandy mud shores	A2.36	B LMU.SMu Sandy mud shores
A2.311	B LMU.SMu.HedM [Hediste diversicolor] and [Macoma balthica] in sandy mud shores	A2.361	B LMU.SMu.HedM [Hediste diversicolor] and [Macoma balthica] in sandy mud shores
A2.3111	B LMU.SMu.HedM ac:Are [Hediste diversicolor], [Macoma balthica] and [Arenicola marina] in muddy sand or sandy mud shores	A2.3611	B LMU.SMu.HedM ac:Are [Hediste diversicolor], [Macoma balthica] and [Arenicola marina] in muddy sand or sandy mud shores
A2.3112	B LMU.SMu.HedM ac:Pyg [Hediste diversicolor], [Macoma balthica] and [Pygospio elegans] in sandy mud shores	A2.3612	B LMU.SMu.HedM ac:Pyg [Hediste diversicolor], [Macoma balthica] and [Pygospio elegans] in sandy mud shores
A2.3113	B LMU.SMu.HedM ac:Mare [Hediste diversicolor], [Macoma balthica] and [Mya arenaria] in sandy mud shores	A2.3613	B LMU.SMu.HedM ac:Mare [Hediste diversicolor], [Macoma balthica] and [Mya arenaria] in sandy mud shores
A2.32	B LMU.Mu Soft mud shores	A2.37	B LMU.Mu Soft mud shores
A2.321	B LMU.Mu.HedScr [Hediste diversicolor] and [Scrobicularia plana] in reduced salinity mud shores	A2.371	B LMU.Mu.HedScr [Hediste diversicolor] and [Scrobicularia plana] in reduced salinity mud shores
A2.322	B LMU.Mu.HedStr [Hediste diversicolor] and [Streblospio shrubsolii] in sandy mud or soft mud shores	A2.372	B LMU.Mu.HedStr [Hediste diversicolor] and [Streblospio shrubsolii] in sandy mud or soft mud shores
A2.323	B LMU.Mu.HedOI [Hediste diversicolor] and oligochaetes in low salinity mud shores	A2.373	B LMU.Mu.HedOI [Hediste diversicolor] and oligochaetes in low salinity mud shores
A2.4	Littoral mixed sediments	A2.4	Littoral combination sediments
A2.41	Mollusc and polychaete communities of littoral mixed sediments	A2.41	deleted
A2.43	O Sheltered mixed sediment shores	A2.41	O Sheltered combination sediment shores
new unit		A2.413	O Syllid and cirratulid polychaetes in poorly sorted mixed sediment shores
new unit		A2.414	O Syllid and cirratulid polychaetes in variable salinity muddy gravel shores
new unit		A2.415	O [Hediste diversicolor] and [Macoma balthica] in poorly sorted mixed sediment shores
new unit		A2.416	O [Hediste diversicolor] and [Scrobicularia plana] in variable salinity gravely mud shores
new unit		A2.417	O [Hediste diversicolor] and [Streblospio shrubsolii] in variable salinity gravely mud shores
new unit		A2.418	O [Hediste diversicolor] and oligochaetes in reduced salinity muddy gravel shores
new unit		A2.731	O [Ruppia maritima] on lower shore sediment
new unit		A2.74	O Methane seeps in littoral sediments
A2.42	O Biogenic features (scars) on littoral mixed sediments	A2.8	O Biogenic structures on littoral sediments
new unit		A2.81	O Biogenic features (scars) on littoral mixed sediments
A3.13	M III.6.1.(p) Biocenosis of infralittoral algae very exposed to wave action	A3.13	M III.6.1.(p) Communities of infralittoral algae very exposed to wave action
new unit		A3.14	O Areas dominated by encrusting algae
new unit		A3.15	O Areas dominated by frondose algae, other than kelp
A3.25	M III.6.1.(p) Biocenosis of infralittoral algae moderately exposed to wave action	A3.151	O [Cystoseira] spp. on exposed infralittoral bedrock and boulders
		A3.25	M III.6.1.(p) Communities of infralittoral algae moderately exposed to wave action

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Old code	Old name	New code	New name
new unit		A3.27	Animal-dominated communities of moderately exposed infralittoral rock
new unit		A3.271	[Halopteis filicina] with coralline crusts on moderately exposed infralittoral rock
A3.34 new unit	M III.6.1.(p) Biocenosis of infralittoral algae sheltered from wave action	A3.34 A3.35	M III.6.1.(p) Communities of infralittoral algae sheltered from wave action Animal-dominated communities of sheltered infralittoral rock in full salinity
new unit		A3.351	[Codium elisabethae], [Halopteis filicina] and coralline crusts on sheltered infralittoral bedrock
A3.6A	M IV.3.1.(p) Coralligenous biocenosis moderately exposed to hydrodynamic action	A3.6A	M IV.3.1.(p) Coralligenous communities moderately exposed to hydrodynamic action
A3.73	M IV.3.1.(p) Coralligenous biocenosis sheltered from hydrodynamic	A3.73	M IV.3.1.(p) Coralligenous communities sheltered from hydrodynamic action
new unit new unit		A3.8 A3.81	Deep circalittoral rock habitats exposed to strong currents Animal communities of deep circalittoral rock habitats exposed to strong currents
A3.9	Deep circalittoral rock habitats	A3.9	Deep circalittoral rock habitats exposed to moderately strong currents
A3.91	Animal communities of deep circalittoral rock habitats	A3.91	Animal communities of deep circalittoral rock habitats exposed to moderately strong currents
A3.92	H 02.01.01.01 Baltic soft rock bottoms of the aphotic zone	A3.911	H 02.01.01.01 Baltic soft rock bottoms of the aphotic zone
A3.93	H 02.01.02.01 Baltic solid bedrock of the aphotic zone	A3.912	H 02.01.02.01 Baltic solid bedrock of the aphotic zone
A3.94	H 02.02.01 Baltic stony bottoms of the aphotic zone	A3.913	H 02.02.01 Baltic stony bottoms of the aphotic zone
A3.95	H 02.03.01 Baltic hard clay bottoms of the aphotic zone	A3.914	H 02.03.01 Baltic hard clay bottoms of the aphotic zone
A3.96	H 02.09.01 Baltic [Mytilus edulis] beds in the aphotic zone of the Baltic	A3.915	H 02.09.01 Baltic [Mytilus edulis] beds in the aphotic zone of the Baltic
A3.97 new unit	H 02.11.01 Baltic peat bottoms of the sublittoral zone	A3.916	H 02.11.01 Baltic peat bottoms of the sublittoral zone
new unit		A3.A A3.A1	Deep circalittoral rock habitats exposed to weak or no Animal communities of deep circalittoral rock habitats exposed to weak or no currents
A3.8	Caves and overhangs in the circalittoral zone	A3.B	Caves and overhangs below the infralittoral zone
A3.81	B CR.Cv Communities of circalittoral caves and overhangs	A3.B1	B CR.Cv Communities of circalittoral caves and overhangs
A3.811	B CR.Cv.SCup Sponges, cup corals and [Parethyropodium coralloides] on shaded/overhanging circalittoral rock	A3.B11	B CR.Cv.SCup Sponges, cup corals and [Parethyropodium coralloides] on shaded/overhanging circalittoral rock
A3.812	M IV.3.2.1. Facies with [Parazoanthus axinellae]	A3.B12	M IV.3.2.1. Facies with [Parazoanthus axinellae]
A3.813	M IV.3.2.2. Facies with [Corallium rubrum]	A3.B13	M IV.3.2.2. Facies with [Corallium rubrum]
A3.814	M IV.3.2.3. Facies with [Leptopsammia pruvoti]	A3.B14	M IV.3.2.3. Facies with [Leptopsammia pruvoti]
A5.7	Caves in the bathyal zone	A3.B2	Caves in total darkness, including deep-sea caves
A5.71	M V.3.2. Caves and ducts in total darkness (including caves without light or water movement at upper levels)	A3.B21	M V.3.2. Caves and ducts in total darkness (including caves without light or water movement at upper levels)
A3.A	Vents and seeps in sublittoral rock	A3.C	Vents and seeps in sublittoral rock
A3.A1	H 02.10.02 Bubbling reefs in the sublittoral euphotic zone	A3.C1	H 02.10.02 Bubbling reefs in the sublittoral euphotic zone
A3.A11	H 02.10.02.01 Bubbling reefs in the sublittoral euphotic zone with little or no macrophyte vegetation	A3.C11	H 02.10.02.01 Bubbling reefs in the sublittoral euphotic zone with little or no macrophyte vegetation

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A3.A12	H 02.10.02.02 Bubbling reefs in the sublittoral euphotic zone dominated by macrophyte vegetation	A3.C12	H 02.10.02.02 Bubbling reefs in the sublittoral euphotic zone dominated by macrophyte vegetation
A3.A2	H 02.10.01 Bubbling reefs in the aphotic zone	A3.C2	H 02.10.01 Bubbling reefs in the aphotic zone
A3.A3	Freshwater seeps in sublittoral rock	A3.C3	O Freshwater seeps in sublittoral rock
A3.A4	Oil seeps in sublittoral rock	A3.C4	O Oil seeps in sublittoral rock
A3.A5	Vents in sublittoral rock	A3.C5	O Vents in sublittoral rock
A4.12	B IGS.FaG Animal communities in shallow-water gravels	A4.11	B IGS.FaG Animal communities in shallow-water gravels
A4.121	B IGS.FaG.HalEdw [Halcampa chrysanthellum] and [Edwardisia tirrida] on sublittoral clean stone gravel	A4.111	B IGS.FaG.HalEdw [Halcampa chrysanthellum] and [Edwardisia tirrida] on sublittoral clean stone gravel
A4.122	B IGS.FaG.Sell [Spisula elliptica] and venerid bivalves in infralittoral clean sand or shell gravel	A4.112	B IGS.FaG.Sell [Spisula elliptica] and venerid bivalves in infralittoral clean sand or shell gravel
A4.123	M III.3.1.1. Association with rhodolithes in coarse sands and fine gravels mixed by waves	A4.113	M III.3.1.1. Association with rhodolithes in coarse sands and fine gravels mixed by waves
A4.124	M III.4.1.1. Facies with [Gouania wildenowii]	A4.114	M III.4.1.1. Facies with [Gouania wildenowii]
A4.46	H 02.06.02 Baltic shell gravel bottoms in the infralittoral photic zone	A4.115	H 02.06.02 Baltic shell gravel bottoms in the infralittoral photic zone
A4.13	B IGS.FaS(p) Animal communities in shallow-water coarse sands	A4.12	B IGS.FaS(p) Animal communities in shallow-water coarse sands
A4.131	B IGS.FaS.Mob Sparse fauna in marine infralittoral mobile clean sand	A4.121	B IGS.FaS.Mob Sparse fauna in marine infralittoral mobile clean sand
A4.132	B IGS.FaS.ScupHy [Sertularia cupressina] and [Hydrallmania falcata] on tide-swept sublittoral cobbles or pebbles in coarse sand	A4.122	B IGS.FaS.ScupHy [Sertularia cupressina] and [Hydrallmania falcata] on tide-swept sublittoral cobbles or pebbles in coarse sand
A4.133	B IGS.FaS.Lcon Dense [Lanice conchilega] and other polychaetes in tide-swept shallow-water sand	A4.123	B IGS.FaS.Lcon Dense [Lanice conchilega] and other polychaetes in tide-swept shallow-water sand
new unit		A4.124	O Greenland cockle [Serpis] in shallow coarse sand (influenced by warm low-salinity melt water) of the Arctic
A4.14	Animal communities of circalittoral mobile cobbles, gravels and sands	A4.13	Animal communities of circalittoral mobile cobbles, gravels and sands
A4.141	B CGS.Ven Venerid bivalves in circalittoral coarse sand or gravel	A4.131	B CGS.Ven Venerid bivalves in circalittoral coarse sand or gravel
A4.1411	B CGS.Ven.Neo [Neopentadactyla mixta] and venerid bivalves in circalittoral shell gravel or coarse sand	A4.1311	B CGS.Ven.Neo [Neopentadactyla mixta] and venerid bivalves in circalittoral shell gravel or coarse sand
A4.1412	B CGS.Ven.Bra Venerid bivalves and [Branchiostoma lanceolatum] in circalittoral coarse sand with shell gravel	A4.1312	B CGS.Ven.Bra Venerid bivalves and [Branchiostoma lanceolatum] in circalittoral coarse sand with shell gravel
A4.142	B ECR.EFa.PomBy [Pomatoceros triquetri], [Balanus crenatus] and byzoan crusts on mobile circalittoral cobbles and pebbles	A4.132	B ECR.EFa.PomBy [Pomatoceros triquetri], [Balanus crenatus] and byzoan crusts on mobile circalittoral cobbles and pebbles
A4.143	B MCR.ByH.Flu.Se rHyd [Sertularia argentea], [Sertularia cupressina] and [Hydrallmania falcata] on tide-swept circalittoral cobbles and pebbles	A4.133	B MCR.ByH.Flu.Se rHyd [Sertularia argentea], [Sertularia cupressina] and [Hydrallmania falcata] on tide-swept circalittoral cobbles and pebbles
new unit		A4.134	O Scallops on shell gravel and sand with some sand scour
new unit		A4.14	O Animals communities in deeper coarse sands
new unit		A4.141	O Coarse sand, 100-120 m, with polychaetes [Hesionura elongata], [Protodovillea kefersteini], [Protomyxides bidentata] and molluscs [Moerella pygmaea]
A4.15	H 02.04.02 Baltic brackish water sublittoral biocoenoses of gravel and coarse sand influenced by varying salinity	A4.15	Animal communities in variable or reduced salinity gravels and coarse sands
A4.22	M III.2.1. Biocenosis of fine sands in very shallow waters	A4.22	M III.2.1. Communities of fine sands in very shallow waters
A4.23	M III.2.2. Biocenosis of well sorted fine sands	A4.23	M III.2.2. Communities of well sorted fine sands

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Old code	Old name	New code	New name
A4.251	H 02.05.02.01 Baltic level sandy bottoms of the infralittoral photic zone with little or no macrophyte vegetation	A4.244	H 02.05.02.01 Baltic level sandy bottoms of the infralittoral photic zone with little or no macrophyte vegetation
A4.252	H 02.05.02.03 Baltic sand bars of the infralittoral photic zone	A4.245	H 02.05.02.03 Baltic sand bars of the infralittoral photic zone
A4.253	H 02.05.02.04 Baltic sand banks of the infralittoral photic zone	A4.246	H 02.05.02.04 Baltic sand banks of the infralittoral photic zone
new unit		A4.247	O [Macoma balthica] in brackish environment (seasonally ice-covered)
A4.25	H 02.05.02 Baltic brackish water sublittoral biocenoses of sands influenced by varying salinity	deleted	H 02.05.02
A4.26	B IMS.FaMS Animal communities in fully marine shallow-water muddy sands	A4.25	B IMS.FaMS Animal communities in fully marine shallow-water muddy sands
A4.261	B IMS.FaMS.Ecor [Echinocardium cordatum] and [Ensis] sp. in lower shore or shallow sublittoral muddy fine sand	A4.251	B IMS.FaMS.Ecor [Echinocardium cordatum] and [Ensis] sp. in lower shore or shallow sublittoral muddy fine sand
A4.262	B IMS.FaMS.SpIS [Spio filicornis] and [Spiophanes bombyx] infralittoral clean or muddy sand	A4.252	B IMS.FaMS.SpIS [Spio filicornis] and [Spiophanes bombyx] infralittoral clean or muddy sand
A4.263	B IMS.FaMS.Maca [Macoma balthica] and [Abra alba] in infralittoral muddy sand or mud	A4.253	B IMS.FaMS.Maca [Macoma balthica] and [Abra alba] in infralittoral muddy sand or mud
A4.264	B IMS.FaMS.Cap [Capitella capitata] in enriched sublittoral muddy sediments	A4.254	B IMS.FaMS.Cap [Capitella capitata] in enriched sublittoral muddy sediments
new unit		A4.255	O [Turritella] in muddy sands
new unit		A4.256	O [Ervilla castanea] beds in infralittoral sand
A4.27	O Animal communities in variable or reduced salinity muddy sands	A4.26	O Animal communities in variable or reduced salinity muddy sands
A4.28	B CMS.AbrNuCor Animal communities of circalittoral muddy sands [Abra alba], [Nucula nitida] and [Corbula gibba] in circalittoral muddy sand or slightly mixed sediments	A4.27	B CMS.AbrNuCor Animal communities of circalittoral muddy sands [Abra alba], [Nucula nitida] and [Corbula gibba] in circalittoral muddy sand or slightly mixed sediments
A4.281	B CMS.AbrNuCor [Amphura filiformis] and [Echinocardium cordatum] in circalittoral muddy sand or slightly mixed sediments	A4.271	B CMS.AbrNuCor [Amphura filiformis] and [Echinocardium cordatum] in circalittoral muddy sand or slightly mixed sediments
A4.282	B CMS.AfilEcor [Virgularia mirabilis] and [Ophura] spp. on circalittoral sandy or shelly mud	A4.272	B CMS.AfilEcor [Virgularia mirabilis] and [Ophura] spp. on circalittoral sandy or shelly mud
A4.283	B CMS.VirOph [Virgularia mirabilis] and [Ophura] spp. on circalittoral sandy or shelly mud	A4.273	B CMS.VirOph [Virgularia mirabilis] and [Ophura] spp. on circalittoral sandy or shelly mud
A4.2831	B CMS.VirOph.HAS [Virgularia mirabilis] and [Ophura] spp. with hydroids and ascidians on circalittoral sandy or shelly mud with shells or stones	A4.2731	B CMS.VirOph.HAS [Virgularia mirabilis] and [Ophura] spp. with hydroids and ascidians on circalittoral sandy or shelly mud with shells or stones
new unit		A4.274	O Medium to very fine sand, 100-120 m, with polychaetes [Spiophanes kroyeri], [Amphipectene auricoma], [Myriochele] sp., [Aricidea wassli] and amphipods [Harpinia Fine sand >80 m with polychaetes [Ophelina neglecta], [Travisia forbesii], crustaceans [Bathyporeia elegans], [Eudorelopsis deformis] and molluscs [Abra prismatica]
new unit		A4.275	O Communities of the muddy detritic bottom
A4.29	M IV.2.1. Biocenosis of the muddy detritic bottom	A4.28	M IV.2.1. Communities of the muddy detritic bottom
A4.31	B IMU.MarMu Shallow marine mud communities	A4.31	B IMU.MarMu Shallow fully marine mud communities
new unit		A4.315	O [Asterre crenata] beneath high salinity cold polar water
A4.32	B IMU.EstMu Variable or reduced salinity non-mobile sublittoral muds	A4.316	O Oligochaetes in mobile mud
A4.33	B IMU.EstMu.Mob Variable or reduced salinity shallow-water fluid mobile mud	A4.32	B IMU.EstMu Variable or reduced salinity sublittoral muds
A4.35	H 02.07.02 Baltic brackish water sublittoral muddy biocenoses influenced by varying salinity	A4.328	H 02.07.02 Baltic brackish water sublittoral muddy biocenoses influenced by varying salinity

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Old code	Old name	New code	New name
A4.351	H 02.07.02.01 Baltic muds of the infralittoral photic zone with little or no macrophyte vegetation	A4.3281	H 02.07.02.01 Baltic muds of the infralittoral photic zone with little or no macrophyte vegetation
A4.353	M III.2.3. Boreal Baltic narrow inlets with soft mud substrate	A4.3282	M III.2.3. Boreal Baltic narrow inlets with soft mud substrate
A4.34	M III.2.3.1. Biocenosis of superficial muddy sands in sheltered waters	A4.33	M III.2.3. Communities of superficial muddy sands in sheltered waters
A4.341	M III.2.3.1. Facies with [Callinassa tyrthenal] and [Kellia corbuloides]	A4.331	M III.2.3.1. Facies with [Callinassa tyrthenal] and [Kellia corbuloides]
A4.342	M III.2.3.2. Facies with fresh water resurgences with [Cerastoderma glaucum] and [Cyathura carinata]	A4.332	M III.2.3.2. Facies with fresh water resurgences with [Cerastoderma glaucum] and [Cyathura carinata]
A4.343	M III.2.3.3. Facies with [Loripes lacteus], [Tapes] spp.	A4.333	M III.2.3.3. Facies with [Loripes lacteus], [Tapes] spp.
A4.344	M III.2.3.6. Association with [Caulerpa prolifera] on superficial muddy sands in sheltered waters	A4.334	M III.2.3.6. Association with [Caulerpa prolifera] on superficial muddy sands in sheltered waters
A4.345	M III.2.3.7. Facies of hydrothermal oozes with [Cyclope neritea] and nematodes	A4.335	M III.2.3.7. Facies of hydrothermal oozes with [Cyclope neritea] and nematodes
A4.37	M IV.1.1. Biocenosis of coastal terrigenous muds	A4.34	M IV.1.1. Communities of coastal terrigenous muds
A4.371	M IV.1.1.1. Facies of soft muds with [Turritella tricarinata communis]	A4.341	M IV.1.1.1. Facies of soft muds with [Turritella tricarinata communis]
A4.372	M IV.1.1.2. Facies of sticky muds with [Virgularia mirabilis] and [Pennatula phosphorea]	A4.342	M IV.1.1.2. Facies of sticky muds with [Virgularia mirabilis] and [Pennatula phosphorea]
A4.373	M IV.1.1.3. Facies of sticky muds with [Alcyonium palmatum] and [Stichopus regalis]	A4.343	M IV.1.1.3. Facies of sticky muds with [Alcyonium palmatum] and [Stichopus regalis]
A4.38	O Periodically anoxic sublittoral muds	A4.35	O Periodically and permanently anoxic sublittoral muds
A4.363	B CMU.Beg Bacterial mats on anoxic sublittoral mud	A4.351	B CMU.Beg Bacterial mats on anoxic sublittoral mud
new unit		A4.363	O Silty sediments > 140 m with polychaetes [Lumbrineris fragilis], [Levinsenia gracilis] and amphipods [Eriopisa elongata]
new unit		A4.364	O [Spirochaetopterus] beneath high salinity Atlantic water
A4.4		A4.365	O [Macoma calcareal] in deep-water soft clayey mud
A4.44	B IMX.FaMX Sublittoral mixed sediments	A4.42	B IMX.FaMX Sublittoral combination sediments
A4.441	B IMX.FaMX.Vsen Animal communities in mixed shallow-water sediments or shallow-water muddy gravel	A4.421	B IMX.FaMX.Vsen Animal communities in shallow-water mixed sediments or shallow-water muddy gravel
A4.442	B IMX.FaMX.An Burrowing anemones in sublittoral muddy gravel	A4.422	B IMX.FaMX.An Burrowing anemones in sublittoral muddy gravel
A4.443	B IMX.FaMX.Lim [Limaria hians] beds in tide-swept sublittoral muddy mixed sediment	A4.423	B IMX.FaMX.Lim [Limaria hians] beds in tide-swept sublittoral muddy mixed sediment
A4.45	B IMX.EstMx Variable and reduced salinity sublittoral mixed sediments	A4.43	B IMX.EstMx Variable and reduced salinity sublittoral mixed sediments
A4.451	B IMX.EstMx.Crea [Crepidula fornicata] and [Aphelochaeta marioni] in variable salinity shallow-water mixed sediment	A4.431	B IMX.EstMx.Crea [Crepidula fornicata] and [Aphelochaeta marioni] in variable salinity shallow-water mixed sediment
A4.452	B IMX.EstMx.MytV [Mytilus edulis] beds in variable salinity shallow-water mixed sediment	A4.432	B IMX.EstMx.MytV [Mytilus edulis] beds in variable salinity shallow-water mixed sediment
A4.453	B IMX.EstMx.PoIM [Polydora ciliata], [Mya truncata] and solitary ascidians in variable salinity shallow-water mixed sediment	A4.433	B IMX.EstMx.PoIM [Polydora ciliata], [Mya truncata] and solitary ascidians in variable salinity shallow-water mixed sediment
A4.454	H 02.08.02.01 Baltic level mixed sediment bottoms of the infralittoral photic zone with little or no macrophyte vegetation	A4.434	H 02.08.02.01 Baltic level mixed sediment bottoms of the infralittoral photic zone with little or no macrophyte vegetation
A4.49		A4.44	
A4.491	B CMX.SspIMx Animal communities of circalittoral mixed sediments	A4.441	B CMX.SspIMx Animal communities of circalittoral mixed sediments
A4.492	B CMX.ModIMx [Modiolus modiolus] beds on circalittoral mixed sediment	A4.442	B CMX.ModIMx [Modiolus modiolus] beds on circalittoral mixed sediment

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Old code	Old name	New code	New name
A4.493	B CMX.ModHo Sparse [Modiolus modiolus], dense [Cerianthus lloydii] and burrowing holothurians on sheltered circalittoral stones and mixed sediment	A4.443	B CMX.ModHo Sparse [Modiolus modiolus], dense [Cerianthus lloydii] and burrowing holothurians on sheltered circalittoral stones and mixed sediment
new unit		A4.444	O Sandy mixed sediment with [Alycinidium diaphanum]
new unit		A4.445	O [Ophiotrix fragilis] brittlestar beds with moderately strong tidal streams
new unit		A4.446	O Crinoids [Leptometra celtica]
A4.4A	M IV.2.2. Biocenosis of the coastal detritic bottom	A4.45	M IV.2.2. Communities of the coastal detritic bottom
A4.4A1	M IV.2.2.1. Association with rhodolithes on coastal detritic bottoms	A4.451	M IV.2.2.1. Association with rhodolithes on coastal detritic bottoms
A4.4A3	M IV.2.2.3. Association with [Peyssonnelia rosa-marina]	A4.452	M IV.2.2.3. Association with [Peyssonnelia rosa-marina]
A4.4A4	M IV.2.2.4. Association with [Arthrocladia villosa]	A4.453	M IV.2.2.4. Association with [Arthrocladia villosa]
A4.4A5	M IV.2.2.5. Association with [Osmundaria volubilis]	A4.454	M IV.2.2.5. Association with [Osmundaria volubilis]
A4.4A6	M IV.2.2.6. Association with [Kallymenia patens]	A4.455	M IV.2.2.6. Association with [Kallymenia patens]
A4.4A7	M IV.2.2.7. Association with [Laminaria rodriguezii]	A4.456	M IV.2.2.7. Association with [Laminaria rodriguezii]
A4.4A8	M IV.2.2.8. Facies with [Ophiura texturata]	A4.457	M IV.2.2.8. Facies with [Ophiura texturata]
A4.4A9	M IV.2.2.9. Facies with Synascidies	A4.458	M IV.2.2.9. Facies with Synascidies
A4.4AA	M IV.2.2.10. Facies with large Bryozoa	A4.459	M IV.2.2.10. Facies with large Bryozoa
A4.5	Shallow-water sediments dominated by angiosperms (other than [Posidonia])	A4.5	Shallow sublittoral sediments dominated by angiosperms
A4.55	Aquatic macrophyte beds of coastal brackish waters	A4.55	Sublittoral macrophyte beds of coastal brackish waters
A4.6	[Posidonia] beds	A4.56	[Posidonia] beds
A4.61	M III.5.1. Association with [Posidonia oceanica]	A4.561	M III.5.1. Association with [Posidonia oceanica]
A4.611	M III.5.1.1. Ecomorphosis of striped [Posidonia oceanica] meadows	A4.5611	M III.5.1.1. Ecomorphosis of striped [Posidonia oceanica] meadows
A4.612	M III.5.1.2. Ecomorphosis of "barrier-reef" [Posidonia oceanica]	A4.5612	M III.5.1.2. Ecomorphosis of "barrier-reef" [Posidonia oceanica]
A4.613	M III.5.1.3. Facies of dead "mattes" of [Posidonia oceanica] without much epiflora	A4.5613	M III.5.1.3. Facies of dead "mattes" of [Posidonia oceanica] without much epiflora
A4.614	M III.5.1.4. Association with [Caulerpa prolifera] on [Posidonia] beds	A4.5614	M III.5.1.4. Association with [Caulerpa prolifera] on [Posidonia] beds
A4.48	O Biogenic beds on sublittoral mixed sediments	A4.6	Biogenic structures over sublittoral sediments
A4.11	B IGS.Mrl Seaweeds and maerl on coarse shallow-water sediments	A4.61	B IGS.Mrl Seaweeds and maerl on coarse shallow-water sediments
A4.111	B IGS.Mrl;Phy [Phymatolithon calcareum] maerl beds in shallow-water clean gravel or coarse sand	A4.611	B IGS.Mrl;Phy [Phymatolithon calcareum] maerl beds in shallow-water clean gravel or coarse sand
A4.1111	B IGS.Mrl;Phy;R [Phymatolithon calcareum] maerl beds with red seaweeds in shallow infralittoral clean gravel or coarse sand	A4.6111	B IGS.Mrl;Phy;R [Phymatolithon calcareum] maerl beds with red seaweeds in shallow infralittoral clean gravel or coarse sand
A4.1112	B IGS.Mrl;Phy;HEc [Phymatolithon calcareum] maerl beds with hydroids and echinoderms in deeper infralittoral clean gravel or coarse	A4.6112	B IGS.Mrl;Phy;HEc [Phymatolithon calcareum] maerl beds with hydroids and echinoderms in deeper infralittoral clean gravel or coarse
A4.112	B IGS.Mrl;Lgla [Lithothamnion glaciale] maerl beds in tide-swept variable salinity shallow-water gravel	A4.612	B IGS.Mrl;Lgla [Lithothamnion glaciale] maerl beds in tide-swept variable salinity shallow-water gravel
A4.113	M III.3.2.1. Maerl facies (= Association with [Lithothamnion corallioides] and [Phymatolithon calcareum])	A4.613	M III.3.2.1. Maerl facies (= Association with [Lithothamnion corallioides] and [Phymatolithon calcareum])
A4.114	M III.3.2.2. Association with rhodolithes in coarse sands and fine gravels under the influence of bottom currents	A4.614	M III.3.2.2. Association with rhodolithes in coarse sands and fine gravels under the influence of bottom currents
A4.42	B IMX.MrlMX Maerl beds on shallow-water muddy mixed sediments	A4.62	B IMX.MrlMX Maerl beds on shallow-water muddy mixed sediments
A4.421	B IMX.MrlMX;Lcor [Lithothamnion corallioides] maerl beds on shallow-water muddy gravel	A4.621	B IMX.MrlMX;Lcor [Lithothamnion corallioides] maerl beds on shallow-water muddy gravel



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Old code	Old name	New code	New name
A4.422	B IMX.MrIMX.Lfas [lithothamnion fasciculatum] maerl beds with [Chlamys varia] on shallow-water sandy mud or mud	A4.622	B IMX.MHIMX.Lfas [lithothamnion fasciculatum] maerl beds with [Chlamys varia] on shallow-water sandy mud or mud
A4.423	B IMX.MrIMX.Lden [lithothamnion dentatum] maerl beds on shallow-water muddy sediment	A4.623	B IMX.MHIMX.Lden [lithothamnion dentatum] maerl beds on shallow-water muddy sediment
A4.43	B IMX.Oy Oyster beds	A4.63	B IMX.Oy Oyster beds
A4.431	B IMX.Oy.Ost [Ostrea edulis] beds on shallow sublittoral muddy sediment	A4.631	B IMX.Oy.Ost [Ostrea edulis] beds on shallow sublittoral muddy sediment
new unit		A4.64	O Structures formed by mussels over sublittoral sediment
new unit		A4.641	[Hatella arctica] beds on silty clay with small pebbles and shells
A4.47	H 02.09.02 Baltic [Mytilus edulis] beds in the infralittoral photic zone	A4.642	H 02.09.02 Baltic [Mytilus edulis] beds in the infralittoral photic zone
A4.471	H 02.09.02.01 Baltic [Mytilus edulis] beds in the infralittoral photic zone with little or no macrophyte vegetation	A4.6421	H 02.09.02.01 Baltic [Mytilus edulis] beds in the infralittoral photic zone with little or no macrophyte vegetation
new unit		A4.65	Maerl beds on deep-water muddy sediments
A4.4A2	M IV.2.2.2. Maerl facies ([Lithothamnion corallioides] and [Phymatolithon calcareum])	A4.651	M IV.2.2.2. Maerl facies ([Lithothamnion corallioides] and [Phymatolithon calcareum])
A4.494	B CMS.Ser Serpulid reefs on very sheltered circalittoral mixed substrata	A4.652	B CMS.Ser Serpulid reefs on very sheltered circalittoral mixed substrata
A4.7	Deep circalittoral sediment habitats	A4.7	Deep shelf sediment habitats
A4.71	Animal communities of deep circalittoral sediments	deleted	
new unit		A4.71	Animal communities of deep circalittoral gravel bottoms
A4.73	H 02.04.01 Baltic gravel bottoms of the aphotic zone	A4.711	H 02.04.01 Baltic gravel bottoms of the aphotic zone
new unit		A4.72	Animal communities of deep circalittoral sandy bottoms
A4.74	H 02.05.01 Baltic sandy bottoms of the aphotic zone	A4.721	H 02.05.01 Baltic sandy bottoms of the aphotic zone
new unit		A4.73	Animal communities of deep circalittoral shell gravel
A4.75	H 02.06.01 Baltic shell gravel bottoms of the aphotic zone	A4.731	H 02.06.01 Baltic shell gravel bottoms of the aphotic zone
new unit		A4.74	Animal communities of deep circalittoral muddy bottoms
A4.711	B COS.AmpPar [Ampharete falcata] turf with [Parvicardium ovale] on cohesive muddy very fine sand near margins of deep	A4.741	B COS.AmpPar [Ampharete falcata] turf with [Parvicardium ovale] on cohesive muddy very fine sand near margins of deep
A4.712	B COS.ForThy Foraminiferans and [Thyasira] sp. in deep circalittoral soft mud	A4.742	B COS.ForThy Foraminiferans and [Thyasira] sp. in deep circalittoral soft mud
A4.713	B COS.Sly [Slyea gelatinosa] and other solitary ascidians on sheltered deep circalittoral muddy sediment	A4.743	B COS.Sly [Slyea gelatinosa] and other solitary ascidians on sheltered deep circalittoral muddy sediment
A4.76	H 02.07.01 Baltic muddy bottoms of the aphotic zone	A4.744	H 02.07.01 Baltic muddy bottoms of the aphotic zone
new unit		A4.75	Animal communities of deep circalittoral mixed sediment bottoms
A4.77	H 02.08.01 Baltic mixed sediment bottoms of the aphotic zone	A4.751	H 02.08.01 Baltic mixed sediment bottoms of the aphotic zone
A4.72	M IV.2.3. Biocenosis of shelf-edge detritic bottom	A4.76	M IV.2.3. Communities of shelf-edge detritic bottom
A4.721	M IV.2.3.1. Facies with [Neolampas rostellata]	A4.761	M IV.2.3.1. Facies with [Neolampas rostellata]
A4.722	M IV.2.3.2. Facies with [Leptometra phalangium]	A4.762	M IV.2.3.2. Facies with [Leptometra phalangium]
A5	Bathyal zone	deleted	
new unit		A5	Deep-sea bed
A5.1	O Bathyal zone hard substrates	A5.1	O Deep-sea rock and artificial hard substrates
new unit		A5.11	O Deep-sea bedrock
new unit		A5.12	O Deep-sea artificial hard substrates
new unit		A5.13	O Deep-sea manganese nodules

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Old code	Old name	New code	New name
A6.11	O Boulders on the abyssal plain	A5.14	O Boulders on the deep-sea bed
A5.2	Bathyal zone mixed substrates	A5.2	Deep-sea combination substrates
A5.21	O Lag deposits in the bathyal zone	A5.21	O Deep-sea lag deposits
A5.22	O Biogenic gravels (shells, coral debris) in the bathyal zone	A5.22	O Deep-sea biogenic gravels (shells, coral debris)
A5.23	O Calcareous pavements in the bathyal zone	A5.23	O Deep-sea calcareous pavements
A5.12	Communities of allocthonous material in the bathyal zone	A5.24	O Communities of allocthonous material
	new unit	A5.241	O Communities of macrophyte debris
A5.3	Bathyal zone sand	A5.3	Deep-sea sand substrates
A5.31	M Biocenosis of bathyal detritic sands with [Grypheus vitreus]	A5.31	M V.2.1. Communities of bathyal detritic sands with [Grypheus vitreus]
A5.4	Bathyal zone muddy sand	A5.4	Deep-sea muddy sand substrates
A5.5	Bathyal zone mud	A5.5	Deep-sea muds
A6.5	Abyssal hills	A5.51	Abyssal hills
A5.51	M Biocenosis of bathyal muds	A5.51	M V.1.1. Communities of bathyal muds
A5.511	M Facies of sandy muds with [Thenea muricata]	A5.52	M V.1.1.1. Facies of sandy muds with [Thenea muricata]
A5.512	M Facies of fluid muds with [Brissoopsis lyrifera]	A5.521	M V.1.1.1. Facies of fluid muds with [Brissoopsis lyrifera]
A5.513	M Facies of soft muds with [Funiculina quadrangularis] and [Aporrhais serresianus]	A5.522	M V.1.1.2. Facies of soft muds with [Funiculina quadrangularis] and [Aporrhais serresianus]
	new unit	A5.523	M V.1.1.3. [Aporrhais serresianus]
A5.514	M Facies of compact muds with [Isidella elongata]	A5.524	M V.1.1.4. Facies of compact muds with [Isidella elongata]
A6.21	M Biocenosis of abyssal muds	A5.53	M V.1.1.1. Communities of abyssal muds
	new unit	A5.6	Deep-sea bioherms
A5.131	B [Lophelia pertusa] reefs	A5.61	O Deep-sea bioherm dominated by scleractinian coral [Lophelia pertusa] reefs
new unit		A5.611	B COR.Lop Deep-sea bioherm dominated by Porifera
A5.515	M Facies with [Pheronema grayi]	A5.62	M V.1.1.1. Facies with [Pheronema grayi]
A5.13	M Biocenosis of deep sea corals	A5.621	M V.1.1.5. Communities of deep-sea corals
	new unit	A5.63	M V.3.1. Canyons, channels, slope failures and slumps on the continental slope
	new unit	A5.7	Active downslope channels
	new unit	A5.71	O Inactive downslope channels
	new unit	A5.72	O Alongslope channels
	new unit	A5.73	O Turbidites and fans
	new unit	A5.74	O Deep-sea trenches
A6.6	Hadal zone (deep ocean trenches)	A5.8	Deep-sea reducing habitats
	new unit	A5.9	Deep-sea reducing habitats
A5.6	Seeps in the bathyal zone	A5.91	Seeps in the deep-sea bed
A6.61	P Cold seep benthic communities of hadal zone	A5.911	P 11.216 Cold seep benthic communities of hadal zone
	new unit	A5.92	O Gas hydrates in deep-sea
A6.13	O Cetacean carcasses on the abyssal plain	A5.93	O Cetacean and other carcasses on the deep-sea bed
A6.8	Anoxic deep seabed habitats below anoxic water	A5.A	Deep-sea bed influenced by hypoxic water column
A6	Abyssal zone	deleted	deleted
	new unit	A6	Isolated 'oceanic' features: seamounts, ridges and the submerged flanks of oceanic islands

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Old code	Old name	New code	New name
A6.1	Hard substrates on the abyssal plain	deleted	
A6.12	Artificial substrates on the abyssal plain	A6.1	Permanently submerged flanks of oceanic islands
A6.2	Soft substrates on the abyssal plain	deleted	
A6.4	Seamounts	A6.2	Seamounts, knolls and banks
new unit		A6.21	Summit communities of seamount, knoll or bank within euphotic zone
new unit		A6.22	Summit communities of seamount, knoll or bank within the mesopelagic zone, i.e. interacting with diurnally migrating plankton
new unit		A6.23	Deep summit communities of seamount, knoll or bank (i.e. below mesopelagic zone)
new unit		A6.24	Flanks of seamount, knoll or bank
new unit		A6.25	Base of seamount, knoll or bank
new unit		A6.251	Moat around base of seamount, knoll or bank
A6.3	Tectonic ridges	A6.3	Oceanic ridges
new unit		A6.31	Communities of ridge flanks
new unit		A6.32	Communities of ridge axial trough (i.e. non-vent fauna)
A6.32	Oceanic ridge without hydrothermal effects	A6.33	Oceanic ridge without hydrothermal effects
new unit		A6.4	Isolated 'oceanic' features influenced by hypoxic water
A6.31	Oceanic ridge with hydrothermal effects	A6.5	Vents in the deep sea
new unit		A6.51	Active vent fields
A6.62	Hadal zone without cold seeps	A6.52	Inactive vent fields
A6.7	Caves in the abyssal zone	deleted	
A7.1	Enclosed coastal saline or brackish water	deleted	
A7.51	Neustal zone	A7.1	Neuston
new unit		A7.11	Temporary neuston layer
new unit		A7.12	Permanent neuston layer
A7.2	Partially enclosed coastal water	deleted	
new unit		A7.2	Completely mixed water column with reduced salinity
A7.21	Estuarine water	deleted	
new unit		A7.21	Completely mixed water column with reduced salinity and short residence time
A7.42	Outer unenclosed seasonally stratified coastal water	A7.211	Baltic outer unenclosed seasonally stratified coastal water
A7.22	Fjord waters (with a sill)	deleted	
new unit		A7.22	Completely mixed water column with reduced salinity and medium residence time
A7.41	Inner unenclosed seasonally stratified coastal water	A7.221	Baltic inner unenclosed seasonally stratified coastal water
new unit		A7.23	Completely mixed water column with reduced salinity and long residence time
A7.14	Water body of Baltic eutrophic coastal lakes	A7.231	Water body of Baltic eutrophic coastal lakes

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Old code	Old name	New code	New name
A7.13	H 04.01.01.02	A7.232	H 04.01.01.02
A7.12	H 04.01.03.01	A7.233	H 04.01.03.01
A7.11	H 04.01.03.02	A7.234	H 04.01.03.02
A7.3	Unenclosed mixed shallow water	deleted	
new unit		A7.3	Completely mixed water column with full salinity
A7.31	Inshore shallow water	deleted	
new unit		A7.31	Completely mixed water column with full salinity and short residence time
A7.32	P 11.125	deleted	
new unit	Water over submerged shoals and reefs	A7.32	Completely mixed water column with full salinity and medium residence time
		A7.33	Completely mixed water column with full salinity and long residence time
A7.4	Unenclosed seasonally stratified coastal water	deleted	
new unit		A7.4	Partially mixed water column with reduced salinity and medium or long residence time
		A7.41	Partially mixed water column with reduced salinity and medium residence time
new unit		A7.42	Partially mixed water column with reduced salinity and long residence time
A7.5	Euphotic zone in non-coastal water	deleted	
new unit		A7.5	Unstratified water column with reduced salinity
new unit		A7.51	Euphotic (epipelagic) zone in unstratified reduced salinity water
A7.52	Euphotic zone over continental shelf	deleted	
new unit		A7.52	Mesopelagic zone in unstratified reduced salinity water
A7.53	Upwelling from continental shelf	deleted	
new unit		A7.53	Bathypelagic zone in unstratified reduced salinity water
A7.54	Euphotic zone beyond continental shelf	deleted	
new unit		A7.54	Abyssopelagic zone in unstratified reduced salinity water
A7.55	Upwelling into euphotic zone beyond continental shelf	deleted	
A7.56	Low-salinity water overlying full-salinity water	deleted	
A7.561	Baltic outflow with permanent halocline	deleted	
A7.6	Reduced-salinity water below the euphotic zone	deleted	
new unit		A7.6	Vertically stratified water column with reduced salinity
A7.61	Low-salinity water without or above halocline and below euphotic zone	deleted	
new unit		A7.61	Water column with ephemeral thermal stratification and reduced salinity
A7.62	Low-salinity water below halocline	deleted	
new unit		A7.62	Water column with seasonal thermal stratification and reduced salinity

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Old code	Old name	New code	New name
new unit		A7.63	New name Water column with permanent thermal stratification and reduced salinity
new unit		A7.64	Water column with ephemeral halocline and reduced salinity
new unit		A7.65	Water column with seasonal halocline and reduced salinity
new unit		A7.66	Water column with permanent halocline and reduced salinity
new unit		A7.66.1	Baltic offshore deep water above the halocline
new unit		A7.66.2	Baltic offshore deep water below the halocline
new unit		A7.67	Water column with ephemeral oxygen stratification and reduced salinity
new unit		A7.68	Water column with seasonal oxygen stratification and reduced salinity
new unit		A7.69	Water column with permanent oxygen stratification and reduced salinity
A7.7	Water over continental shelf below euphotic zone	deleted	Fronts in reduced salinity water column
new unit		A7.7	
A7.71	High Arctic offshore waters	deleted	Ephemeral fronts in reduced salinity water column
new unit		A7.71	
A7.72	Low Arctic offshore waters	deleted	Seasonal fronts in reduced salinity water column
new unit		A7.72	
A7.73	Boreal, temperate and subarctic offshore waters	deleted	Persistent fronts in reduced salinity water column
new unit		A7.73	
A7.74	Mediterranean and Macaronesian subtropical offshore waters	deleted	
new unit		A7.74	
A7.8	Water below euphotic zone over seabed beyond continental slope break	deleted	Unstratified water column with full salinity
new unit		A7.8	
new unit		A7.81	Euphotic (epipelagic) zone in unstratified full salinity water
A7.81	Mesopelagial zone	A7.82	Mesopelagic zone in unstratified full salinity water
A7.82	Bathypelagial zone	A7.83	Bathypelagic zone in unstratified full salinity water
A7.83	Abyssopelagial zone	A7.84	Abyssopelagic zone in unstratified full salinity water
new unit		A7.9	Vertically stratified water column with full salinity
new unit		A7.91	Water column with ephemeral thermal stratification and full salinity
new unit		A7.92	Water column with seasonal thermal stratification and full salinity
A7.93	Polynya	deleted	Water column with permanent thermal stratification and full salinity
new unit		A7.93	
new unit		A7.94	Water column with ephemeral halocline and full salinity
new unit		A7.95	Water column with seasonal halocline and full salinity
new unit		A7.96	Water column with permanent halocline and full salinity
new unit		A7.97	Water column with ephemeral oxygen stratification and full salinity

## EUNIS habitat classification : changes between October 1999 and February 2002

Old code	Old name	New code	New name
new unit		A7.98	Water column with seasonal oxygen stratification and full salinity
new unit		A7.99	Water column with permanent oxygen stratification and full salinity
A7.B	Anoxic water column	A7.991	Anoxic water column in water with permanent oxygen stratification and full salinity
A7.A	Open ocean habitats with currents and eddies	deleted	Fronts in full salinity water column
A7.A1	Water over continental slope with upwellings	A7.A	Ephemeral fronts in full salinity water column
new unit		deleted	Seasonal fronts in full salinity water column
A7.A2	Deep water with upwellings	A7.A1	Persistent fronts in full salinity water column
new unit		deleted	Ice-associated marine habitats
A7.A3	Open ocean fronts	A7.A2	Sea ice
new unit		deleted	Seasonal pack-ice
A7.A4	Open ocean eddies	A7.A3	Permanent pack-ice
A7.A4	Ice-dominated marine habitats	deleted	Ice floes
A7.9	Sea ice	A8	Freshwater ice
A7.91	Seasonal pack-ice	A8.1	Large tabular iceberg
A7.912	Permanent pack-ice	A8.11	Medium iceberg
A7.911	Ice floes	A8.12	Small iceberg
A7.913	Icebergs and growlers	A8.13	Bergy bit
A7.92		A8.2	Growler
A7.921		A8.21	Brine channels
new unit		A8.22	Brine channels in first year ice
new unit		A8.23	Brine channels in multi-year ice
new unit	Growlers	A8.24	Under-ice habitat
A7.922		A8.25	Under-ice habitat in first-year ice
new unit		A8.3	Under-ice habitat in multi-year ice
new unit		A8.31	Coastal lagoon cliff communities
new unit		A8.32	Pantellerian lagoon cliff communities
new unit		A8.4	Pontic saline lagoon cliffs
new unit		A8.41	Permanent lake ice
new unit		A8.42	Wet bare peat and peat hags on raised bogs
new unit		B3.36	Wet bare peat and peat hags on blanket bogs
new unit		B3.361	Acid valley mires
new unit		B3.362	Basic and neutral valley mires
new unit		C1.7	Soft water spring mires
new unit		D1.15	
new unit		D1.24	
new unit		D2.11	
new unit		D2.12	
new unit		D2.2C	
		P 54.11	

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Old code	Old name	New code	New name
new unit		D4.1N	Hard water spring mires
new unit		E1.2A1	Iberian [Festuca] - [Plantain] swards
new unit		E1.2A2	Helleno-Balkan supramediterranean siliceous grasslands
new unit		E1.2E	Irano-Anatolian steppes
E1.2E	P 34.A1	E1.2F	Pannonic sand steppes
E1.2F	P 34.A2	E1.2G	Ponto-Sarmatic sand steppes
new unit		E1.2H	Irano-Anatolian sand steppes
new unit		E1.9E	Irano-Anatolian inland dunes
new unit		E2.7	Unmanaged mesic grassland
new unit		E4.21	Oroboreal [Carex bigelowii]-[Rhacomitrium] moss-heaths
new unit		E4.22	Rock pavement lichen communities
new unit		E4.23	Rock pavement, plateau and summital moss heaths
new unit		E4.24	Icelandic lava flow moss heaths
E4.21		E4.25	Moss and lichen fjell fields
new unit		E5.6	Anthropogenic forb-rich habitats
E5.6		E5.61	Lowland habitats colonised by tall nitrophilous herbs
J1.52	P 87.2(p)	E5.62	Weed communities of recently abandoned urban and suburban constructions
J2.62	P 87.2(p)	E5.63	Weed communities of recently abandoned rural constructions
J3.31	P 87.2(p)	E5.64	Weed communities of recently abandoned extractive industrial sites
new unit		E5.65	Land reclamation forb fields
new unit		E7	Sparingly wooded grasslands
X12		E7.1	Atlantic parkland
new unit		E7.2	Sub-continental parkland
X17		E7.3	Dehesa
new unit		F2.34	Oroboreal [Betula] scrub
new unit		FB.32	Ornamental shrub plantations
G1.7A	P 41.7A	G1.7A	Steppe [Quercus] woods
new unit		G1.7A1	Euro-Siberian steppe [Quercus] woods
new unit		G1.7A2	Irano-Anatolian steppe [Quercus] woods
new unit		G1.7C9	Western Asian wild fruit tree steppe woods
new unit		G1.7CA	Southern Mediterranean chasm woods
new unit		G1.7D1	Helleno-Balkan [Castanea sativa] forests
new unit		G1.7D2	Aegean [Castanea sativa] forests
new unit		G1.7D3	Eastern Adriatic [Castanea sativa] forests
new unit		G1.7D4	Illyrian [Castanea sativa] forests
new unit		G1.7D5	Liguria-Insularian [Castanea sativa] forests
new unit		G1.7D6	Italo-Sicilian [Castanea sativa] forests
new unit		G1.7D7	Cyano-Sardinian [Castanea sativa] forests
new unit		G1.7D8	Galloprovincial [Castanea sativa] forests

## EUNIS habitat classification : changes between October 1999 and February 2002

Old code	Old name	New code	New name
new unit		G1.7D9	Gallo-Iberian [ <i>Castanea sativa</i> ] forests
new unit		G1.7DA	Euxinian [ <i>Castanea sativa</i> ] forests
new unit		G1.8A	Continental [ <i>Quercus petraea</i> ] forests
new unit		G1.A8	Euro Siberian maple woods
new unit		G5.81	Recently felled areas, formerly broadleaved trees
new unit		G5.82	Recently felled areas, formerly coniferous trees
new unit		G5.83	Recently felled areas, formerly mixed broadleaved and coniferous trees
new unit		H1.41	Icelandic lava tubes
new unit		H1.42	Macaronesian lava tubes
new unit		H1.43	Tethyan lava tubes
new unit		H2.57	Anatolian siliceous screens
new unit		H2.6A	Cyprian screens
H2.6A	Illyrian montane screens	H2.6B	Illyrian montane calcareous screens
H2.6B	Illyrian sub-Mediterranean screens	H2.6C	Illyrian sub-Mediterranean screens
new unit		H2.6D	Illyrian montane serpentine screens
new unit		H2.6E	Illyrian [ <i>Achnatherum calamagrostis</i> ] screens
new unit		H2.6F	Anatolian calcareous screens
new unit		H3.2H	Bare inland basaltic and ultrabasic cliffs
new unit		H3.2I	Temperate serpentine and basaltic cliff communities
new unit		H3.2J	Mediterranean serpentine and basaltic cliff communities
new unit		H3.51	Pavements, rock slabs, rock domes
new unit		H3.511	Limestone pavements
new unit		H3.61	Bare weathered rock and outcrop habitats
new unit		H3.62	Sparsely vegetated weathered rock and outcrop habitats
H4.2	Glaciers	deleted	
H4.21	True glaciers	H4.2	True glaciers
new unit		H4.21	Ice sheets and ice caps
new unit		H4.22	Cirque and valley glaciers
new unit		H4.23	Glaciersets
new unit		H4.3	Rock glaciers and unvegetated ice-dominated moraines
new unit	Rock glaciers	H4.31	Rock glaciers
H4.22		H4.32	Ice-core moraines
new unit		H4.33	Unvegetated glacial moraines in the process of formation
H5.21		H5.21	Unvegetated young glacial moraines
H5.22		H5.22	Sparsely vegetated glacial moraines
H5.23		H5.33	Lacustrine dunes
H5.34		H5.331	Lake Geneva lacustrine dunes
H5.341		H5.332	Boreo-lacustrine dunes
H5.343		H5.34	Inland non-lacustrine dunes
new unit			



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Old code	Old name	New code	New name
H5.342	Icelandic inland dunes	H5.341	Icelandic inland dunes
H5.33	Gravel with very sparse or no vegetation	H5.35	Gravel with very sparse or no vegetation
new unit		H5.36	Shallow rocky soils with very sparse or no vegetation
H5.7	Boulder fields	H5.37	Boulder fields
H6.1	Sparsely vegetated volcanic mountain summits, lava and ash fields	deleted	
H6.3	Fumaroles, solfataras and motettes	H6.1	Active volcanic features
H6.31	Italian fumaroles	H6.11	Italian fumaroles
H6.32	Sicilian fumaroles	H6.12	Sicilian fumaroles
H6.33	Pantelleria fumaroles	H6.13	Pantelleria fumaroles
H6.34	Macaronesian fumaroles	H6.14	Macaronesian fumaroles
H6.35	Icelandic solfataras	H6.15	Icelandic solfataras
H6.36	East Mediterranean fumaroles and solfataras	H6.16	East Mediterranean fumaroles and solfataras
H6.37	Peri-Alpine fumaroles, solfataras and motettes	H6.17	Peri-Alpine fumaroles, solfataras and motettes
H6.38	Peri-Caucasian fumaroles and solfataras	H6.18	Western Asian fumaroles and solfataras
H6.11	Teide violet community	H6.21	Teide violet community
H6.12	Etna summital communities	H6.22	Etna summital communities
new unit		H6.23	Western Asian orovolcanic communities
H6.21	Barren lava fields	H6.24	Barren lava fields and flows
new unit		H6.241	Barren Icelandic lava flows
new unit		H6.242	Barren Macaronesian lava flows
new unit		H6.243	Barren Tethyan lava flows
H6.22	Volcanic ash and lapilli fields	H6.25	Volcanic ash and lapilli fields
new unit		P 66.4	Volcanic un-inundated fields with annual and perennial weed communities
I1.53	Fallow inundated fields with weed communities	I1.54	Fallow inundated fields with annual weed communities
new unit		I1.55	Fallow inundated fields with annual and perennial weed communities
new unit	Constructed field boundaries	J1.7	High density temporary residential units
J2.5		J2.5	Constructed boundaries
new unit		J2.53	Sea walls
A7.84	Benthopelagial zone	X30	Bentho-pelagic habitats